IN THE CLAIMS:

- 1. (PREVIOUSLY PRESENTED) A method for modifying and testing a network proto-
- 2 col stack that includes a plurality of protocols, the method comprising:
- executing a test of said network protocol stack using a processing system, the test
- 4 modeling each protocol of said plurality of protocols of said protocol stack as separate
- objects, the test simulating communication between a plurality of devices using said net-
- 6 work protocol stack;
- receiving a command comprising code to modify one of said plurality of protocols
- 8 in said protocol stack; and
- performing said modification on said one of said plurality of protocols in said pro-
- tocol stack while the test is executing, by changing said separate object corresponding to
- said one of said plurality of protocols in said protocol stack.
 - 2. (ORIGINAL) The method of claim 1 wherein said command is received in interpreted
- 2 code.
- 3. (PREVIOUSLY PRESENTED) The method of claim 1 further comprising:
- determining said one of said plurality of protocols in said protocol stack to modify
- 3 responsive to receiving said command.
- 4. (ORIGINAL) The method of claim 1 further comprising:
- determining whether said command is adding a message to said one of said plu-
- 3 rality of protocols; and
- adding said message to said one of said plurality of protocols.

- 5. (ORIGINAL) The method of claim 1 further comprising:
- determining whether said command is to remove a message from said one of said
- 3 plurality of protocols; and
- 4 removing said message from said protocol.
- 6. (ORIGINAL) The method of claim 1 further comprising:
- determining whether said command is to modify an existing message in said one
- of said plurality of protocols;
- removing said existing message from said one of said plurality of protocols; and
- adding a new message to said one of said plurality of protocols including said ex-
- 6 isting message with modifications in said command.
- 7. (PREVIOUSLY PRESENTED) The method of claim 1 further comprising:
- determining whether said command is to modify a state machine of said one of
- said plurality of protocols; and
- 4 modifying said state machine of said one of said plurality of protocols responsive
- 5 to said command.
- 8. (PREVIOUSLY PRESENTED) An apparatus for modifying and testing a network pro-
- tocol stack that includes a plurality of protocols, the apparatus comprising:
- means for executing a test of said network protocol stack, the test modeling each
- 4 protocol of said plurality of protocols of said protocol stack as separate objects, the test
- simulating communication between a plurality of devices using said network protocol
- 6 stack;

- means for receiving a command comprising code to modify one of said plurality
 of protocols in said protocol stack; and
- means for performing said modification on said one of said plurality of protocols in said protocol stack while the test is executing, by changing said separate object corresponding to said one of said plurality of protocols in said protocol stack.
- 9. (ORIGINAL) The apparatus of claim 8 wherein said command is received in interpreted code.
- 10. (PREVIOUSLY PRESENTED) The apparatus of claim 8 further comprising:
- means for determining said one of said plurality of protocols in said protocol
 stack to modify responsive to receiving said command.
 - 11. (ORIGINAL) The apparatus of claim 8 further comprising:

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- means for determining whether said command is adding a message to said one of said plurality of protocols;
- 4 means for adding said message to said one of said plurality of protocols.
- 12. (ORIGINAL) The apparatus of claim 8 further comprising:
- means for determining whether said command is to remove a message from said one of said plurality of protocols; and
- 4 means for removing said message from said protocol.
 - 13. (ORIGINAL) The apparatus of claim 8 further comprising:

means for determining whether said command is to modify an existing message in 2 said one of said plurality of protocols; 3 means for removing said existing message from said one of said plurality of pro-4 tocols; and 5 means for adding a new message to said one of said plurality of protocols includ-6 ing said existing message with modifications in said command. 7 14. (PREVIOUSLY PRESENTED) The apparatus of claim 8 further comprising: 1 means for determining whether said command is to modify a state machine of 2 said one of said plurality of protocols; and 3 means for modifying said state machine of said one of said plurality of protocols 4 responsive to said command. 5 15. (PREVIOUSLY PRESENTED) A computer readable medium carrying one or more 1 instructions for modifying and testing a network protocol stack that includes a plurality of 2 protocols, the one or more instructions including instructions which executed by one or 3 more processors, cause the one or more processors to perform: 4 executing a test of said network protocol stack, the test modeling each protocol of 5 said plurality of protocols of said protocol stack as separate objects, the test simulating 6 communication between a plurality of devices using said network protocol stack; 7 receiving a command comprising code to modify one of said plurality of protocols 8 in said protocol stack; and 9 performing said modification on said one of said plurality of protocols in said pro-10 tocol stack while the test is executing, by changing said separate object corresponding to 11

said one of said plurality of protocols in said protocol stack.

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- 16. (ORIGINAL) The medium of claim 15 wherein said command is received in inter-
- 2 preted code.
- 1 17. (PREVIOUSLY PRESENTED) The medium of claim 15 wherein said one or more
- instructions further include instructions which executed by one or more processors, cause
- the one or more processors to perform:
- determining said one of said plurality of protocols in said protocol stack to modify
- 5 responsive to receiving said command.
- 18. (PREVIOUSLY PRESENTED) The medium of claim 15 wherein said one or more
- instructions further include instructions which executed by one or more processors, cause
- the one or more processors to perform:
- determining whether said command is adding a message to said one of said plu-
- 5 rality of protocols; and
- adding said message to said one of said plurality of protocols.
- 19. (PREVIOUSLY PRESENTED) The medium of claim 15 wherein said one or more
- instructions further include instructions which executed by one or more processors, cause
- the one or more processors to perform:
- 4 determining whether said command is to remove a message from said one of said
- 5 plurality of protocols; and
- 6 removing said message from said protocol.

- 20. (PREVIOUSLY PRESENTED) The medium of claim 15 wherein said one or more
- instructions further include instructions which executed by one or more processors, cause
- the one or more processors to perform:
- determining whether said command is to modify an existing message in said one of said plurality of protocols;
- removing said existing message from said one of said plurality of protocols; and
- adding a new message to said one of said plurality of protocols including said ex-
- 8 isting message with modifications in said command.
- 21. (PREVIOUSLY PRESENTED) The medium of claim 15 wherein said one or more
- instructions further include instructions which executed by one or more processors, cause
- the one or more processors to perform:
- determining whether said command is to modify a state machine of said one of
- said plurality of protocols; and
- 6 modifying said state machine of said one of said plurality of protocols responsive
- 7 to said command.
- 22. (PREVIOUSLY PRESENTED) An apparatus for modifying and testing a network
- 2 protocol stack that includes a plurality of protocols, the apparatus comprising:
- a memory configured to store instructions;
- a network connection device configured to provide connectivity to a network;
- a central processing unit configured to execute instructions stored in the memory
- to initiate a test of said network protocol stack, the test simulating communication be-
- tween a plurality of devices using said network protocol, by emulating at least some of
- 8 the plurality of devices;

- an input/output (I/O) device configured to receive a command to modify one of said plurality of protocols in said protocol stack; and
- a central processing unit further configured to perform said modification on said one of said plurality of protocols in said protocol stack while the test is executing by changing a data structure corresponding to said one of said plurality of protocols in said protocol stack.
- 23. (ORIGINAL) The apparatus of claim 22 wherein said command is received in inter-
- 2 preted code.
- 24. (PREVIOUSLY PRESENTED) The apparatus of claim 22 further comprising:
- the central processing unit further configured to determine said one of said plural-
- 3 ity of protocols in said stack to modify responsive to receiving said command.
- 25. (CURRENTLY AMENDED) The apparatus of claim 22 further comprising:
- the central processing unit further configured to determine whether said command is adding a message to said one of said plurality of protocols; and
- the central processing unit further configured to add said message to said one of said plurality of protocols.
- 26. (PREVIOUSLY PRESENTED) The apparatus of claim 22 further comprising:
- the central processing unit further configured to determine whether said command
- is to remove a message from said one of said plurality of protocols; and
- the central processing unit further configured to remove said message from said protocol.

- 27. (PREVIOUSLY PRESENTED) The apparatus of claim 22 further comprising:
- the central processing unit further configured to determine whether said command
- is to modify an existing message in said one of said plurality of protocols;
- 4 the central processing unit further configured to remove said existing message
- 5 from said one of said plurality of protocols; and
- the central processing unit further configured to add a new message to said one of
- said plurality of protocols including said existing message with modifications in said
- 8 command.
- 28. (PREVIOUSLY PRESENTED) The apparatus of claim 22 further comprising:
- the central processing unit further configured to determine whether said command
- is to modify a state machine of said one of said plurality of protocols; and
- 4 the central processing unit further configured to modify said state machine of said
- one of said plurality of protocols responsive to said command.
- 29. (PREVIOUSLY PRESENTED) The method of claim 1 wherein said performing said
- 2 modification while the test is executing performs the test absent recompilation of said
- network protocol stack or restart of the test.
- 30. (PREVIOUSLY PRESENTED) The apparatus of claim 22 wherein the central proc-
- essing unit is configured to perform said modification while the test is executing absent
- recompilation of said network protocol stack or restart of the test.